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PATENT

Case Docket No. ASMEEX.333A

Date: April 9, 2002

Page 1

In re application of : Todd, et al.
App. No. : 10/074,564
Filed : February 11, 2002
For : THIN FILMS AND
METHODS OF MAKING
THEM (as amended)
Examiner : Unknown
Art Unit : Unknown

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(Date)

Joseph J. Mallon
Joseph J. Mallon, Reg. No. 39,287

UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. Box 2327
Arlington, VA 22202

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified application.

The fee has been calculated as shown below:

CLAIMS AS FILED									
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE		ADDITIONAL FEE
Total Claims	54	—	54	=	0	×	\$18	=	\$0
Independent Claims	4	—	4	=	0	×	\$84	=	\$0
If application has been amended to contain multiple dependent claim(s), then add							\$130	=	\$0
Time Extension Fee									\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT									\$0

(X) Return prepaid postcard.

(X) Please charge any additional fees, including any fees for additional extension of time, or credit
overpayment to Deposit Account No. 11-1410.

Joseph J. Mallon
Registration No. 39,287
Attorney of Record

ASMEX.333A



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E. Willis
2-12-03
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Todd, et al.
Appl. No. : 10/074,564
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) Joseph J. Mallon
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PRELIMINARY AMENDMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Prior to examination, please amend the above-referenced application as follows:

IN THE TITLE:

Please amend the title to read as follows:

THIN FILMS AND METHOD OF MAKING THEM

IN THE ABSTRACT:

Please replace the Abstract of the Disclosure with the following new Abstract:

A1 Thin, smooth silicon-containing films are prepared by deposition methods that utilize a silicon-containing precursor. In preferred embodiments, the methods result in Si-containing films that are continuous and have a thickness of about 150 Å or less, a surface roughness of about 5 Å rms or less, and a thickness non-uniformity of about 20% or less. Preferred silicon-containing films display a high degree of compositional uniformity when doped or alloyed with other elements. Preferred deposition methods provide improved manufacturing efficiency and